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Z/032/61/011/010/002/007
E197/E135

AUTHORS: Kunc J. Engineer, and
Placák, V. Docent, Doctor of Engineering

TITLE: Bending stresses and strains of shells

PERIODICAL: Strojirenství, Vol. 11, No. 10, 1961, pp. 731-746

TEXT The article is a continuation of previous work published in Strojirenství No 9, 1961, pp. 651-668, and deals with stresses and strains of thin shells of various shapes due to bending moments. Both the design and the actual assembly of a shell will normally cause departure from ideal conditions and the bending moments so induced will cause either local or overall stresses and strains, which may be many times greater than those due to other forces or loads. In applying the general theory to shells of specific shapes the authors consider a small element, assume the element to be part of a rotational symmetric body stressed in a rotational symmetric fashion, and derive the three conditions for the equilibrium of forces and moments in the three directions in space. Assuming further a linear distribution of stress across the wall thickness and a uniform wall thickness for

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Bending stresses and strains of Z/032/61/011/010/002/007
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the whole shell, as well as a linear dependence of deformation on stress, the authors derive 5 conditions from the geometry of deformations and 4 from the elastic properties of the material. There are altogether 12 equations for 12 unknowns, which were solved and tabulated to give the stresses in axial and circumferential direction; the elongation of radii and several angles of rotation for the following shapes: spherical shell, cone, truncated cone, tall vertical cylinder, short vertical cylinder, and long horizontal cylinder, in each case for a number of boundary conditions. There are approximately 200 formulae in all. There are 4 figures and 4 references: 1 Soviet-bloc and 3 non-Soviet-bloc. The English language reference reads:

Ref.3: S Timosenko. Theory of Plates and Shells. McGraw-Hill Book Co New York 1936.

ASSOCIATION: Vyzkumny ustav Kralovopolske strojirny, Praha
(Research Institute of the Kralovo Pole Engineering Works, Prague)

Cerd 2/2

FLATK, Frontier

A truck for work in the assembly. Leveraging: 10
n. 1000 1000.

1. Movement of the truck to the road, Vinton.

FLACAR, V., doc., dr. ing.

Elastic stability of chemical apparatus. Magy. korr. lap. 19
no. 83-88 F '64.

1. Kralovopolske neprymy. Kufatomindeze, Praha.

10 7000

24291

Z/032/61/011/009/001/009

E073/E535

AUTHORS: Kunc, J., Engineer and Placák, V., Docent Engineer
Doctor

TITLE: Stresses and strains in a shell in the membrane state

PERIODICAL: Strojírenství, 1961, Vol. 11, No. 9, pp. 651-668

TEXT: Almost half of all the equipment produced by the chemical engineering industry consists of shells made up from combinations of geometrical shapes, e.g. cylinders, cones, spheres etc. The shells are vessels and tubes of large diameters, mostly fabricated by welding from sheet of various thickness and of various materials. Reliable design cannot be obtained applying empirical or simple formulae and it is necessary to apply methods of calculation which are based on the well proved theory of shells. The authors limit themselves to strength calculations of shells which are most frequently used in chemical engineering, i.e. shells of constant thickness which are rotationally symmetrical, both in shape and load. The calculations are based on the following assumptions: a) normal stresses in the direction of the z-axis are negligibly small compared to the stresses in

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Stresses and strains in a shell . . .

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Z/032/61/011/009/001/009

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the direction of the x and y-axes; b) points which prior to deformation are located on the normal of the central area will be located after deformation on the normal of the deformed central area. Seven equations are derived which determine the relations between all the components of the internal forces, deformations and displacement of the individual points. These are based on: 1) the conditions of equilibrium; 2) the conditions of deformation (geometric and elastostatic). The derived general conditions are then applied for solving various problems of loading of shells of the main geometrical shapes which occur in chemical engineering. The results are summarized in the form of tables, where the membrane forces and the strain values are given for practical calculations. The tables (12 printed pages) contain sketches and formulae for shells of various shapes and various loading conditions, including the following: hemispherical, supported or suspended (closed or open), spherical with internal pressure, spherical with external pressure, spherical with hydrostatic loading; triangular under various conditions of loading and supporting and cylindrical. There are 6 figures.

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Stresses and strains in a shell ...

24291

Z/032/61/011/009/001/009

E073/E535

6 tables and 4 references: 1 Soviet and 3 non-Soviet. The one reference to an English language publication reads as follows:
S. Timoshenko, S.: Theory of Plates and Shells, McGraw-Hill Book Comp., New York 1936.

ASSOCIATION: Výzkumný ústav Královopolské strojírny, Praha
(Research Institute of the Králove Pole Engineering Works, Prague)

Card 3/3

PLANNING; RESEARCH.

calculating strength of the system in a special case. . . .
The system is initially "stagnant" and then, after a
period of time, it begins to move.

It is a very important question to ask, "What is the
effect of the system on the environment?"

PLACÁK, V.

✓ 2283° Stresses in Reinforced Sheet of Plate. Namáhání
vymáháních desek. (Czech.) V. Placák. Strojírenství, v. 6, no.
A. Sept. 1955, p. 143-151.
MA Calculation of bending and twisting stresses in infinitely long
plates strengthened by variously shaped ribs or braces. Equations
for internal and external deflection, work and forces.
Critical stress state. Diagrams, photographs. 10 ref.

gsp

Placards, V.

18222. Stability of Long Plates Under Shear Stress. See also abstracts under: Shear Stress. (Czech.) V. Placik. Strojnictvi, v. 5, no. 5, May 1965, p. 325-330. Existing methods of calculating the properties of various test structures for plates of deformation, stressed states, and buckling or warping. State of the bar, equilibrium conditions, critical stresses, and size of load. Photographs, diagrams.

dy

PLACAK, V., doc., inz., dr.

"Calculation of pressure vessel strength" by J. Nemec.
Reviewed by V. Placak. Strojirenstvi 13 no.3:238 Mr '63.

PLACASEVA, T.

STANKOVIC, D.; RAMADANOVIC, D.; PLACASEVA, T.

Effect of vitamin C on physical work in hot environment. I. Vitamin C level in blood in workers exposed to heat. Arh. hig. rada 5 no. 2:185-192 1954.

1. Higijenski savod, Sarajevo, Radnja primljena 16.III.1954.

(VITAMIN C, in blood

in workers exposed to heat)

(HEAT, eff.

on vitamin c in blood in workers exposed to heat)

(BLOOD

vitamin C, in workers exposed to heat)

PLACEY, S.

Effect of the loss of Na and Cl on the intracellular pressure in patients with glaucoma.
(Ceskoslovenska Fysiologie, Vol. 4, No. 2, 1968, Praha, Czechoslovakia)

SC: Monthly List of Eastern European Association (FEA) 1968, Vol. 2, No. 1, Sept. 1968, pp. 1-10.

JACKOWSKI, Tadeusz; PLACEK, Jadwiga

Spinning conditions and the hairiness of yarn. Przegl włokien 16
no.12:614-618 D '62.

PLACEK, Jan; BRADA, inz.

Rubber gloves averted an accident. Elektrotechnik 18 no.6:177
Je '63.

1. Elektroudrzbar, Svit, n.p., Gottwaldov (for Placek).
2. Ustav technicko dozoru, Praha (for Brada).

1. Introduction

2. The first part of the report deals with the general situation in the country and the role of the government in the economy.

3. The second part of the report deals with the specific situation in the country and the role of the government in the economy.

PLAZEK, Z.

Calculation of the concentration of the substance in the sample is based on the results of the photometric measurement of the absorbance of the substance in the sample and on the results of the photometric measurement of the absorbance of the substance in the standard solution. The use of an acid tryptophan-alanyl ester substantially improved the method. L. J. U. 4

17/24

Czechoslovakian and Animal Physiology - Digestion.

Acta Jur : Res Zhar - Biol., No 7, 1968, 31817

Author : V. Lac, V., Placer, Z., et al.

Inst : -

Title : Protective Action of Gastric Mucus Against the Formation of Experimentally-Induced Ulcers of the Stomach. IV. Action of Sulfanated Amylase Against the Formation of Ulcers.

Orig Pub : Ceskosl. gastroenterol. a vyziva, 1957, 11, No 4, 109-114.

Abstract : Sulfanated amylase (I) in a dose of 12.5 mg introduced into the stomach of rats with a dressed pylorus for obtaining experimentally-induced ulcers by the Shay' method reduced damage of the mucosa of the stomach by 80%, but 25 mg of I completely prevented the appearance of ulcers. The introduction of I was not accompanied by toxic phenomena. The protective action of I was stronger than the action of nontoxic doses of atropine and natural gastric mucus.

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CZECHOSLOVAKIA/Human and Animal Physiology. Digestion
The Stomach.

T-7

Abs Jour: Ref Zhur-Diol , No 12, 1958, 55729

Author : Vokac, V., Roubal, A., Placer, Z.

Inst :

Title : The Prophylactic Effect of Gastric Mucosa Preventing
the Emergence of Experimentally Induced Gastric
Erosions. V. The Effect of Certain Sympathomimetic
and Sympathoclitic Substances on Gastric Secretion.

Orig Pub: Ceskosl. gastroenterol. a vyziva, 1957, 11, No 6,
450-455.

Abstract: Large doses of adrenalin and ephedrine prevented the
development of experimentally induced gastric ero-
sions, produced in rats by the method of Shay. These
substances, however, not only caused an increase in
the mucous secretion, but they also inhibited the

Card : 1/2

EXCERPTA MEDICA Sec 6 Vol 13/3 Internal Med. Mar 59

1734. THE ACTION OF GASTRIC MUCUS AND SOME SULPHONATED COMPOUNDS ON THE DEVELOPMENT OF EXPERIMENTAL GASTRIC ULCERS IN RATS - Placer Z., Roubal Z. and Vokac V. Inst. for Human Nutrit., Prague - REV. CZECH. MED. 1958, 4 2 (111-124) Graphs 2 Tables 3

The protective action of gastric mucus as a natural pepsin inhibitor in the development of experimental gastric ulceration evoked by the method of Shay et al. was investigated. The importance of ester-sulphate links in this inhibitory action was verified and the protective action of certain new synthetic pepsin inhibitors - sulphonated polysaccharide, glycoprotein and heteroside derivatives - was tested. Results: (1) The intragastric administration of a gastric mucus preparation made from hog's stomach mucosae significantly decreased the formation of gastric ulcers. The experimental results of increasing the gastric mucus secretion were equivocal. (2) The significance of pepsin and its inhibitors, particularly gastric mucus, in the development of ulcers was confirmed by experiments where the ester-sulphate groups of mucus were blocked by the basic protein, protamine, which led to a considerable increase of the total number of ulcers. (3) By artificially increasing the number of ester-sulphate groups in the mucus molecule by sulphonation, the inhibitory power of sulphonated mucus was increased and the number of ulcers in the gastric mucosa was decreased. (4) A number of artificial pepsin inhibitors was prepared by the sulphonation of polysaccharides, glycoproteins and heterosides, in experiments in vitro the greatest inhibitory power was exhibited by sulphonated amylose, further by sulphonated tannin and by heparin. (5) Sulphonated amylose, as an effective pepsin inhibitor in experiments where experimental ulcers were evoked by Shay's method, had a significant protective action and effectively prevented the formation of experimental gastric lesions. (6) Sulphonated amylose administered orally is not absorbed from the gastrointestinal tract, its L.D.₅₀ = 14,000 mg., it has no adverse secondary effects and its use in the therapy of peptic ulceration in man can be considered particularly in gastric ulcers and in gastritis accompanied by hyposecretion of gastric mucus. (V, 2, 6)

PLACER, Z.; SEDLACEK, B.; ROUBAL, Z.; SLABOCHOVA, Z.; HRONADKOVA, V.

The problem of fats from the biochemical viewpoint. Cesk. gastroent.
vyz. 16 no.3/4:171-177 Ap '62.

1. Ustav pro vyzkum ~~vyz~~ivy lidu v Praze, reditel doc. MUDr. J. Masek,
DrSc.

(NUTRITION)

(ADIPOSE TISSUE)

(LIPID METABOLISM)

VULTERINOVA, M.; DOHERSKY, P.; PIRK, F.; HRUBA, F.; SEGOVA, E.; BLAHNIKOVÁ, L.;
SLABOCHOVA, Z.; PLACER, Z.

Changes of the nutritional status of gastrectomized patients, their
diagnosis, prevention and therapy. Cesk. gastroent. vys. 16 no.3/4:
258-265 Ap '62.

1. Ustav pro vyzkum vyživu lidu v Praze, reditel doc. MUDr. J. Masek,
DrSc.

(GASTRECTOMY)

(NUTRITION DISORDERS)

CESTO DOLOVA 1A

PLACER, Z.

Institute of Chem. Research (Ustav pro vyz. um. vyziv
lid), Prague

Brno, Vnitřní lékařství, No 6, 1963, .. 541-546

"Activities in Biochemistry from the Viewpoint of the Role
Played by Enzymes."

PLACER, Z.; RATH, R.; SLABOCHOVA, Z.; technicka spoluprace HRADILOVA, L.

Body water space. I. Determination of extracellular fluids with the aid of rhodanide (NaSCN). Cesk. gastroent. 16 no.1:35-40 Ja '62.

1. Ustav pro vyzkum vyziwy lidu, Praha, red. doc. MUDr. J. Masek, DrSc.
(THIOCYANATES) (BODY FLUIDS)

PLACER, Z.; SLABOCHOVA, Z.; MASEK, J.; technicka spoluprace: HRADILOVA, L.;
ROUCKOVA, O.

On adipose tissues. III. Composition of 3 types of adipose tissue in
rats fed diets with various food contents after fasting. Cesk.
gastroent. vys. 15 no.3:197-202 My '61.

1. Ústav pro vyzkum vyzivy lidu, Praha, reditel. doc. MUDr. Josef
Masek.

(ADIPOSE TISSUE chem) (DIETS exper)
(FASTING exper)

VULTERINOVA, M.; DOBERSKY, P.; PIRK, F.; HRUBA, P.; SIGOVA, E.; BLAHENIKOVA, L.;
SLABOCHOVA, Z.; PLACER, Z.

Changes in the nutritional state of patients after gastrectomy; diagnosis,
prevention and therapy. Rev. czech. med. 8 no.4:275-284, 1962.

1. Institute of Human Nutrition, Prague; Director: Prof. J. Masch, M.D.
(POSTGASTRECTOMY SYNDROMES)

PLACER, Z.; SLABOCHOVA, Z.; FABRY, P.; HAVLOVA, M.; MASEK, J.; technicka
spoluprace ROUCKOVA, O.; HRADILOVA, L.

On adipose tissues. IV. Composition of 3 types of adipose tissues in
rats after prolonged feeding diets with various food contents. Cesk.
gastroent. vyz. 15 no.3:203-208 My '61.

1. Ustav pro vyzkum vyživu lidu v Praze, reditel doc. MUDr. Josef Masek.
(ADIPOSE TISSUE chem) (DIETS exper)

SLABOCHOVA, Z.; PAVL, R.; HAVRIL, M.; MACEK, J.

Effect of D-proglut in the treatment of obesity. Cas. Lek. Cesk. 107:1458-62 Apr 24 '64.

1. Ústav pro výzkum v oboru lidu, Praha. Ústřední prof. dr. J. Macek, et al.

MASEK, Josef; SLABOCHOVA, Zdenka; PLACER, Zdenek

Some aspects of fat diets in the metabolism of normal and obese subjects. Cas. lek. cesk. 101 no.32/33:977-980 17 Ag '62.

1. Ustav pro vyzkum vyzivy lidu, Praha, reditel prof. dr. J. Masek, DrSc.

(LIPIDS)

(NUTRITION)

(LIPID METABOLISM;

(OBESITY)

RATH, R.; SLABOCHOVA, Z.; PLACER, Z.

Metabolic studies in obesity. V. Effect of adrenalin in normal weight and obese subjects. Cesk. gastroent. vyz. 17 no.7:429-429 N°63

1. Ustav pro vyzkum vyzivy lidu v Praze; reditel prof. dr. J. Masek, DrSc.

SLABOCHOVA, Z.; MASEK, J.; PLACER, Z.; RATH, R.

Contribution to metabolic studies in obese subjects. Bratisl. Lek.
Listy 42 no.7:402-408 '62.

1. Z Ustavu pro vyzkum vyživvy lidu v Praze, reditel doc. MUDr.
J. Masek, Dr.Sc.

(OBESITY) (LIPID METABOLISM)

(4)

SLABOCHOVA, Z; MAŠEK, J., MUDr. Dr. Sc.; PLACER, Z;
RATH, R.

Czechoslovakia

Research Institute for Human Nutrition -- Prague
(Ústav pro výzkum výživy lidu -- Praha);
Director: M. MASEK, Docent MUDr Dr. Sc.

Bratislava, Bratislavské lekárske listy, No 7,
1962, pp 402-407

"Contribution to the Study of the Metabolism
of the Obese."

(4)

SLABOCHOVA, Z.; RATH, R.; PLACER, Z.

Metabolic studies in obesity. V. Blood sugar curve after 2
glucose loads. Cesk. gastroent. vyz. 17 no.1:37-41 Ja '63.

1. Ustav pro vyzkum vyživy lidu v Praze, reditel prof. dr.
J. Masek, DrSc.

(OBESITY) (GLUCOSE TOLERANCE TEST)
(INSULIN) (AGING)

KRONDL, A.; VAVRINKOVA, H.; MICHALEC, C.; VOKAC, V.; PLACEK, Z.; SKALA, I.

Digestion and absorption of fats. Cesk. gastroent. vyz. 10. no. 3/4:
191-196 Apr '62.

1. Ustav pro vyzkum lidu v Praze, reditel doc. MUDr. J. Marek, DrSc.
(BILE) (GLYCERIDES) (CHLORTETRACYCLINE)
(NEOMYCIN) (DIGESTION) (LIPID METABOLISM)

SLABOCHOVA, Z; MAŠEK, J., MUDr. Dr. Sc.; PLACER, Z;
RATH, R.

Czechoslovakia

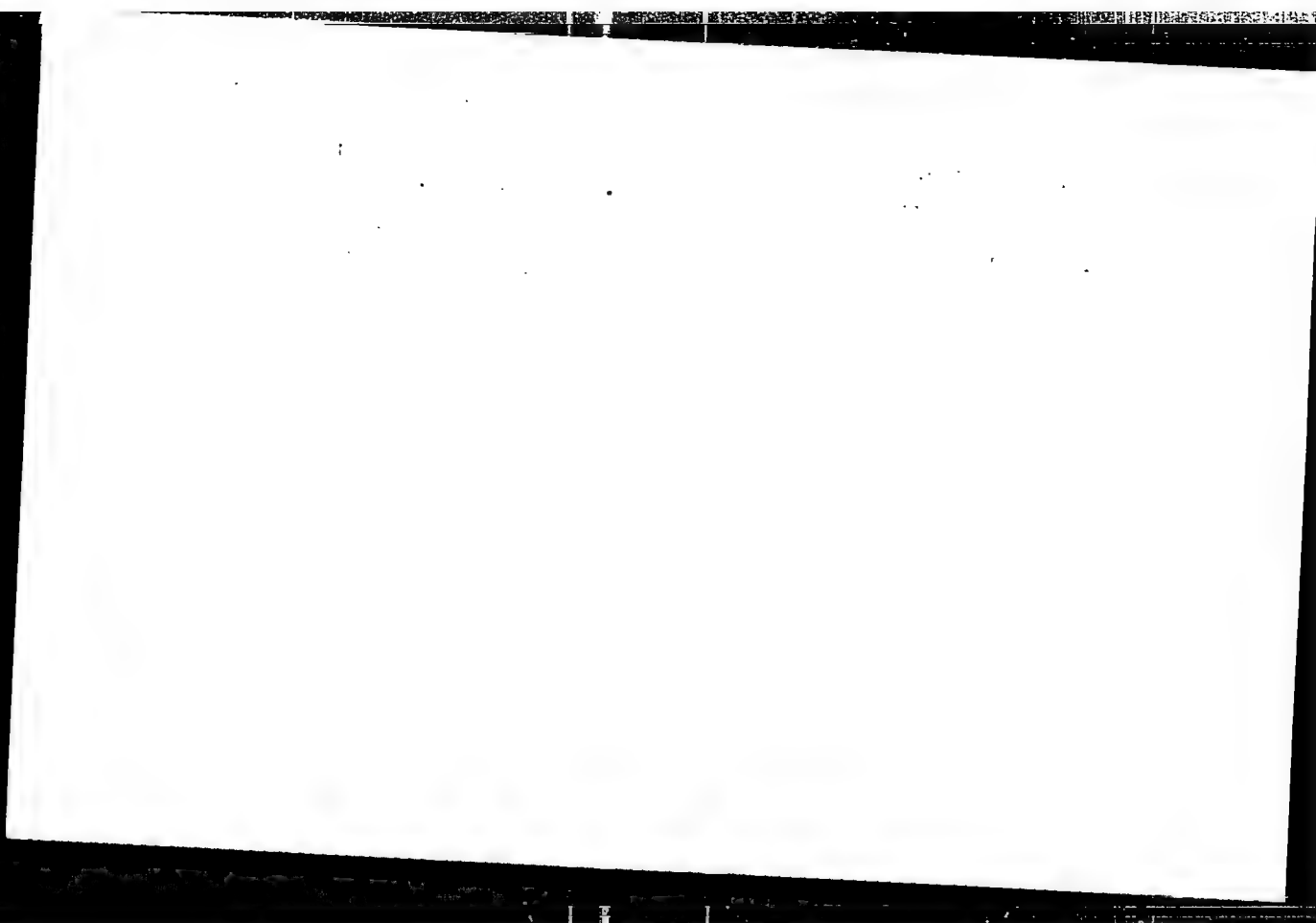
Research Institute for Human Nutrition -- Prague
(Ústav pro výzkum výživy lids -- Praha);
Director: M. MAŠEK, Docent MUDr Dr. Sc.

Bratislava, Bratislavské lekárske listy, No 7,
1962, pp 402-407

"Contribution to the Study of the Metabolism
of the Obese."

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001341



APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0013411

PETHASEK, K. (Prana-Krc, Budejovicka 800); FLACER, Z.

The effect of 2,4-bis-(p-chlorophenyl)-1,1,1-trichloroethane (DDT) on the lipid metabolism. Cesk. hyg. 10: 3183-188 My '45.

• Ústav pro výzkum výživy lidu, Praha.

PLACER, Z.; VESELKOVA, A.; PETRASEK, R.

Interaction of antioxidants in biochemical processes. Cesk. hyg.
10 no.3:260-264 My '65

1. Ustav pro vyzkum vyzivy lidu, Praha. 2. Z. Placer's address:
Praha-Krc, Budejovicka 800.

SLABOCHOVA, Z.; PLACER, Z.; MASEK, J.

Research of obesity in the Czechoslovak Socialist Republic. (Some recent findings). Rev.Czech.M. 7 no.1:41-48 '61.

1. Institute for Human Nutrition, Prague. Director: Doc.J.Masek.
(OBESITY statist)

PLACER, Z.; SLABOCHOVA, Z.; NOVAK, M.

Postheparin esterase activity of human serum. IV. Cas.lek.cesk 100
no.15:449-454 14 Ap '61.

1. Ustav pro vyzkum vyziwy lidu v Praze, reditel doc. dr. J. Masek.

(ESTERASES blood) (HEPARIN pharmacol)

EXCERPTA MEDICA Sec 6 vol 13/1 - Internal Med. 1958, 26.

1840. THE EXCRETION OF AMINO-ACIDS DURING HEPATIC INSUFFICIENCY -
Vylučování aminokyselin při jaterní insuficienci - Perlicka V.,
Placer Z. and Szarka F. Vnitřní Odd. Čs. Nemocnice, Condrina
Ústav pro Výzkum Všeob. Léčb. Praha - ČSL GASTROENT. VYZ. 1958, 12 2
(146-152) Graphs 2 Tables 2

Of a total number of 23 patients with advanced hepatic insufficiency, amino-acid excretion was followed up to the lethal stage in 10. It was revealed that hyperaminoaciduria is not a direct indicator of the degree of damage of the liver cells because in some patients with diffuse degenerative liver changes hyperaminoacid-

I

100

uria did not occur even during coma. Therefore the current opinion that hyperaminoaciduria is due to the loss of desamination function of the liver cells has to be revised. Pathogenetic conditions connected with protein catabolism as a cause of hyperaminoaciduria and hepatic insufficiency are discussed.

PLACER, Z.; ROUBAL, Z.

Effect of mucoproteins on esterolysis in the blood serum. Cesk. fysiol.
7 no.4:368-370 July 58.

1. Ustav pro vyzkum vyzivy lidu, Vyzkumny ustav pro farmcii a biochemii,
Praha.

(ESTERASES, in blood,
eff. of mucoproteins (Cz))
(PROTEINS, effects,
on blood esterolysis (Cz))

PLACER, Z.; ROUBAL, Z.; VOKAC, V.

Effect of the liver on biosynthesis of serum mucoproteins, Cesk. fysiол.
7 no.4:370-371 July 58.

1. Ustav pro vyzkum vyzivy lidu, vyzkumny ustav pro farmaci a biochemii,
Praha.

(BLOOD PROTEINS,

mucoproteins, eff. of hepatectomy (Cz))

(LIVER, eff. of excis.

on blood mucoproteins (Cz))

HORKY, J.; PLACER, Z.

Changes in peptidolytic activity after traumatic stimuli in rats. Cas.
lek. cesk. 97 no.40:1257-1259 3 Oct 58.

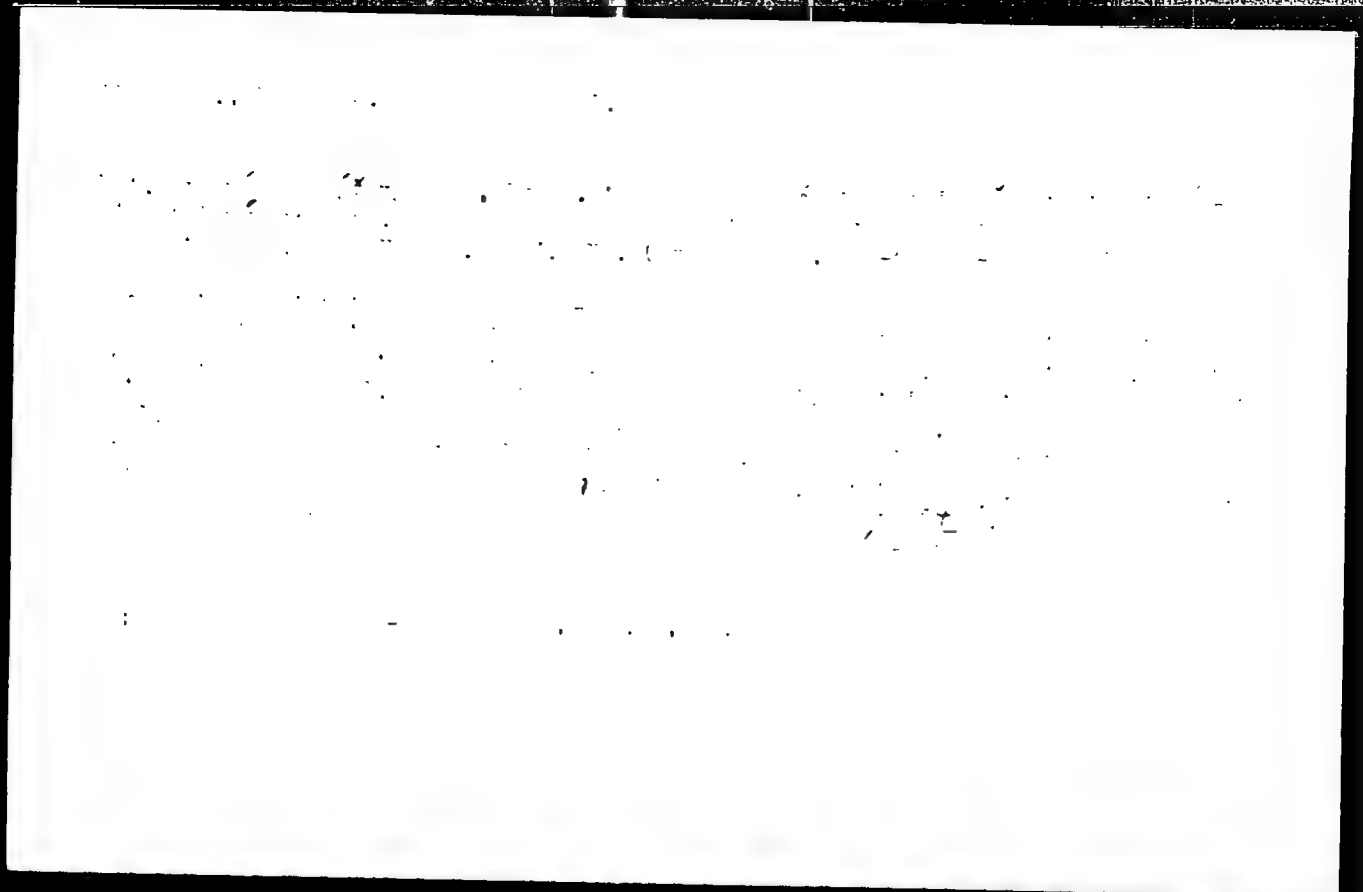
1. Ustav pro vyzkum lidu, Praha-Krc, prednosta doc. dr. J. Masak.
(WOUNDS AND INJURIES, exper.

eff. on blood pepsinase levels in rats (Pol))
(PROTEASES, in blood

pepsinase, eff. of exper. inj. in rat (Pol))

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001341



APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0013411

1. The first part of the document is a list of the names of the persons who were present at the meeting. The names are listed in alphabetical order.

2. The second part of the document is a list of the topics that were discussed at the meeting. The topics are listed in alphabetical order.

3. The third part of the document is a list of the actions that were taken at the meeting. The actions are listed in alphabetical order.

Handwritten: J. V. Poliska, E. P. Pater.

Investigation of the protein tubes in different phases of
development. J. V. Poliska and E. P. Pater. *Sbornik Pathofy-
siol. Trac. Vys. (Prague)* 7, 299-306 (1968); *Recapitul. Med.
Biol.* 11, 7, 1070-1 (1964).—Some relationships between total
protein, dissolved acids, and pyruvate were followed. Capel-
man's titration according to Beck (C.A. 63, 5646) was
used for studying the protein comp. of the tubes.
R. D. H.

PLACKER, Z.; SLABOCHOVA, Z.

Comparison of certain enzymatic systems in normal conditions and in obesity. *Cesk.fysiol.* 9 no.3:257 My '60.

1. Ustav pro vysekum vysivu lidu, Praha
(ENZYMES metab.)
(OBESITY metab.)

SLABOCHOVA, Z.; PLACER, Z.

Esterase activity of the serum during the course of prolonged hypothermia. Cesk.fysiol. 9 no.3:263-264 My '60.

1. Ustav pro vyzkum vyzivu lidu, Praha
(HYPOTHERMIA INDUCED exper)
(ESTERASES blood)

PBLIKAN, V. PLACER, Z.

Qualitative value of examination of the gastric juice in various
phases of secretion. Sborn. pathofysiol. trav. vys. 7 no.5-6:
330-340. Nov 1953. (CINL 25:5)

1. Of the Institute of Research on Nutrition (Head --Docent
J. Masak, M.D.), Prague.

PLACER, Z., SLABOCHOVA, Z.; ROUBAL, Z.; NOVAK, M.; HOLECKOVA, E.; SEKLA, B.

Serum esterase activity and mucoproteinemia in rats after the
implantation of Walker 256 tumor. Neoplasma, Bratisl. 7 no.1
suppl:44-46 '60.

(NEOPLASMS blood)
(ESTERASES blood)
(MUCOPROTEINS blood)

PLACER, Z.
Country: Czechoslovakia

Academic Degrees: /not given/

Affiliation: Institute of Research on Human Nutrition (Ustav pro vyzkum
vyzivy lidu), Prague; Director (Reditel): Doc MUDr J Kasek

Source: Brno, Vnitřní Lekarství, Vol VII, No 8, August 1961, pp 926-930

Data: "The Reducing Diet from the Point of View of Metabolic
Adaptation."

Authors:

SLABOCHOVA, Z
PLACER, Z

, 32

MASEK, J.; SLABOCHOVA, Z.; PLACER, Z.

Contribution to the problem of prevention and therapy of obesity.
Cas.lek.cesk 100 no.22:681-686 2 Je '61.

1. Ustav pro vyskum vysivy lidu, Praha, reditel doc. MUDr. J. Masek.

(OBESITY)

PELIKAN, Vl., Doc., MUDr.; PLACER, Zd., Dr.

Proteolytic activity of gastric juice. Cas. lek. cesk. 94 no.
27:742-746 1 July 55.

1. Z lekarske fakulty Palackeho university, Olomouc, a z
Ustavu pro vyzkum vyzivy lidu, Praha, reditel doc. MUDr.
J. Masek.

(GASTRIC JUICE,
proteolytic activity)
(PROTEASES, determination,
in gastric juice)

PLACER

2-D

Proteolytic activity of gastric juice. VI. Felikán and Pláček
(Palacký Univ., Olomouc, Czech.). *Časopis lékařské společnosti 84*, 742-8(1955). — The proteolytic activity (I) of gastric juice at various pH values was studied by the biuret method of Pláček (C.A. 49, 100404). Pepsin, cathepsin, and rennin activities are attributed to one enzyme. pH-I curves and free acidities were compared in juices obtained during the reflexory and neurohumoral phase of gastric secretion. Normal type was characterized by higher I (at low pH) and by lower free acidity in the reflexory phase. Various deviations from this pattern are described. Comparatively low I was seen after gastric resection. Max. of I at pH 3.5 instead of at 1.5 was observed in some samples of juice.
I. M. Haly

①

PLACER, ZDENEK

Measurement of amylolytic activity of bacterial fungi.
Placer, Zdenek (Ústav výživy lids, Prague). *Průmysl
Léčiv* 1, 541-5 (1965).—A modified method is described
based on the titration in alk. medium with I of aldehyde
groups liberated by hydrolysis (cf. Balcer and Warner,
Antonie van Leeuwenhoek 30, 211 (1963)). Considerable intensity
of the hydrolytic cleavage is lowered by carrying the in-
cubation at room temp., thus simplifying the procedure.
L. J. Urbánek

SLABOKHOVA, Z. [Slabokhova, Z.]; VESELEKOVÁ, A.; SLABOKHOVA, Z. [Slabokhova, Z.]

Nature of the inhibition of fatty acid oxidation in the animal organism. Vop. pit. 23 no. 1:30-33 N-D '64.

(MIRA 18:6)

1. Institut pitaniya (dir. - prof. I. Mashek [Mashek, I.]), Praga, Czechoslovakia.

RATH, R.; PLACER, Z.; SLABOCHOVA, Z.; Technicka spoluprace: HRADILOVA, J.;
MUNCLINGEROVA, M.; Statisticka spoluprace: ZVOLANKOVA, K., inz.

Body water space. Part 8. Tesk. gastroent. vyz. 19 no. 1: 134-137
S '65.

.. Ustav pro vyzkum vyzivy lidu v Praze reditel prof. dr.
J. Masek, DrSc.

EXCERPTA MEDICA Sec 5 Vol 12/1 Gen Pathology Jan 59

159. THE ACTION OF GASTRIC MUCUS AND SOME SULPHONATED COMPOUNDS ON THE DEVELOPMENT OF EXPERIMENTAL GASTRIC ULCERS IN RATS - Pláček, Z., Kozlár, Z., and Vokáč, V. Inst. for Human Nutrition, Prague - REV. CZECH MED. 1958, 4, 2 (111-124) Graphs 2 Tables 3

The protective action of gastric mucus as a natural pepsin inhibitor in the development of experimental gastric ulceration evoked by the method of Shay et al. was investigated. The importance of estersulphate mucus in this inhibitory action was verified and the protective action of certain new synthetic pepsin inhibitors - sulphonated polysaccharide, glycoprotein and heteroside derivatives - was tested. Results: (1) The intragastric administration of a gastric mucus preparation made from hog's stomach mucosae significantly decreased the formation of gastric ulcers. The experimental results of increasing the gastric mucus secretion were equivocal. (2) The significance of pepsin and its inhibitors, particularly gastric mucus, in the development of ulcers was confirmed by experiments where the estersulphate groups of mucus were blocked by the basic protein, protamine, which led to a considerable increase of the total number of ulcers. (3) By artificially increasing the number of ester-sulphate groups in the mucus molecule by sulphonation, the inhibitory power of sulphonated mucus was increased and the number of ulcers in the gastric mucosa was decreased. (4) A number of artificial pepsin inhibitors was prepared by the sulphonation of polysaccharides, glycoproteins and heterosides. In experiments in vitro the greatest inhibitory power was exhibited by sulphonated amylose, further by sulphonated tannin and by heparin. (5) Sulphonated amylose, as an effective pepsin inhibitor in experiments where experimental ulcers were evoked by Shay's method, had a significant protective action and effectively prevented the formation of experimental gastric lesions. (6) Sulphonated amylose administered orally is not absorbed from the gastrointestinal tract, its LD₅₀ = 14,000 mg., it has no adverse secondary effects and its use in the therapy of peptic ulceration in man can be considered particularly in gastric ulcers and in gastritis accompanied by hyposecretion of gastric mucus.

Placer, Z.

/ Excretion of nitrogen in feces. J. Procházka, R. Divil,
Z. Placer, J. Hála, and R. Kozlovská (Ústav pro výzkum
výživy-Idu, Prague). Sborník path-fyziol. lékařů a výživ
8, 27-32 (1964).--Exams. of 7000 persons (healthy and ill)
revealed that excretion of N in feces is not const. even on a
standard diet and its amt. does not depend on the N con-
tent in food. I, J. Urbanek

PELIKAN, V.: PLACER, Z.

Examination of gastric secretion without catheterization. Cas. lek.
cesk. 92 no. 46:1252-1255 13 Nov 1953. (CLML 25:4)

1. Of the Institute of Research on Nutrition (Head--Docent J. Massek,
M.D.), Prague. 2. Use of PAS.

PLACER, Z.; SLABOCHOVA, Z.; HOUBAL, Z.

Antilipæmic action of heparinoids. Rev. Czech. M. 5 no.3:192-201
1959.

1. Institute for Human Nutrition, Prague, Director: Doc. J. Masek,
Research Institute for Pharmacy and Biochemistry, Prague, Director:
Ing. Dr. O. Nemecek.

(LIPOPROTEIN LIPASE)

KOLDOVSKII, O.; MOSINGER, B.; PLACER, Z.

Peroral effect of insulin in young rats. *Cesk. fysiolo.* 9 no.1:24-25
Ja 60.

1. Fysiologicky ustav CSAV a Ustav pro vyskum vysivy lidu. Praha.
(INSULIN, pharmacol.)

PLACER, Z.; SLABOCHOVA, Z.; ROUBAL, Z.

Antilipemic activity of gastric mucus. Cesk. fysiolo. 9 no.1:
44-45 Jan 60.

1. Ustav pro vyzkum vyživu lidu. Vyskumny ustav pro farmaci
a biochemii, Praha.

(MUCOPROTEINS, pharmacol.)
(LIPOPROTEIN LIPASES)

PLACER, Z.

EXCERPTA MEDICA Sec.2 Vol.9/11 Physiology, etc. Nov56

5055. PLACER Z. Úst. pro výzkum vlivu lidu, Praha. •Titrační stanovení amylolytické aktivity dvanáctníkové šťávy. Determination of amylolytic activity of pancreatic juice by titration VNITŘ. LÉK. 1955, 1/9 (641-645) Graphs 2 Tables 1

Amylolytic activity can be estimated after oxidation of aldehyde groups by iodine in alkali solution. The excess iodine is titrated with thiosulphate (modification of Willstätter-Schudel's method). The great intensity of hydrolytic splitting in pancreatic juice is lowered by incubation at room temperature.

Placer - Prague

CZECHOSLOVAKIA/Human and Animal Physiology. Digestion.

V

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 26984.

Author : V. Vokač, Z. Placer and Z. Roubal.

Inst :

Title : The Protective Action of Gastric Mucus Against
Experimental Erosion of the Stomach. II. Natural
Factors Influencing the Formation of the Lesions.
III. The Effect of Sulfonate and Guanido Groups
on the Activity of Pepsin in the Contents of the
Stomach.

Orig Pub: Českosl. gastroenterol. a výživa, 1957, 11, No 1,
22-37.

Abstract: A study of the protective action of the gastric
mucus in rats with erosion resulting from ligation

Card : 1/3

27

CZECHOSLOVAKIA/Human and Animal Physiology. Digestion.

V

Abs Jour : Ref. Zhur-Biol., No 6, 1958, 26984.

of the pylorus showed that the extent of the damage to the mucosa is determined not only by the acidity of the gastric juice and the concentration of pepsin in it. Artificial elevation of the amount of mucus in the stomach by introducing mucus obtained from swine stomachs (12.5 to 50 mg) decreased the extent of the damage. When 50 mg of mucus was given, the extent of the damage was 29, while in the control it was 88.1. Synthetic sulfonation of the gastric mucus from swine reduced the extent of the damage from 29.0 to 5.6 (by 80%). Conversely, protamine blockade of the sulfonate groups of the rats' natural mucus increased the index of damage from 88.1 to 126.7 (by 43%). The protective properties of mucus result

Card. : 2/3

CZECHOSLOVAKIA/Human and Animal Physiology. Digestion. v

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 26984.

from the presence in it of the sulfonate groups
of ether-linked H_2SO_4 , which reduce the proteolytic
activity of pepsin.

Card : 3/3

CZECHOSLOVAKIA/Human and Animal Physiology. Digestion.

V

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 26983.

Author : E. Paltová, E. Holečková and Z. Placer.

Inst : Ústav pro studium lidské výživy a metabolismu

Title : The Effect of Hunger on the Secretion of Hydrochloric Acid and the Proteolytic Activity of the Glandular Portion of the Rat's Stomach.

Orig Pub: Českosl. gastroenterol. a výživa, 1957, 11, No 2, 142-147.

Abstract: Prolonged hunger (loss of 25 to 30% of body weight) practically did not lower the pH of the gastric juice in rats, but the proteolytic activity of stomach homogenates was considerably reduced, the more so the greater was the damage to the gastric mucosa resulting from hunger. The secretory factors pre-

Card : 1/2

36

KRONDL, A.; VAVRINKOVA, H.; PLACER, Z.; Statisticke zhodnoceni: ~~EVOLANKOVA~~,
Mila

Role of the concentration of bile acids in the metabolism of fats.
II. Digestion of fats with different melting points. Cesk. gastroent.
vys. 15 no.2:112-116 Mr '61.

1. Ustav pro vyzkum vysiwy lidu v Praze, reditel doc. MUDr. Josef
Masak.

(FATS chem) (BILE ACIDS AND SALTS chem)

PLACER, Z.; SLABOCHOVA, Z.

On the adipose tissue. Introduction. Cesk. gastroent. vyz. 15 no.2:
81-82 Mr '61.

1. Ustav pro vyzkum vyzivy lidu, Praha, reditel doc. MUDr. J. Masek.

(ADIPOSE TISSUE)

PLACER, Z.; SLABOCHOVA, Z.; MASEK, J.; HAVLOVA, M.; Technicka spoluprace
HRADILOVA, L.; ROUCKOVA, O.

On the adipose tissue. I. Composition of 3 types of adipose tissue
in rats. Cesk. gastroent. vys. 15 no.2:83-88 Mr '61.

1. Ustav pro vyzkum vyziwy lidu, Praha, reditel doc. MUDr. J. Masek.

(ADIPOSE TISSUE chem)

PLACER, Z.; SLABOCHOVA, Z.; Technicka spoluprace ROUCKOVA, O.; HRADILOVA, L.

On the adipose tissue. II. Changes in the composition of the adipose tissue in starvation. Cesk. gastroent. vyz. 15 no.2:89-94 Mr '61.

1. Ustav pro vyzkum vyziwy lidu, Praha, reditel doc. MUDr. Josef Masek.

(ADIPOSE TISSUE chem) (STARVATION exper)

SLABOCHOVA, Z.; HAVLOVA, M.; PLACER, Z.

Metabolic studies in obesity. IV. Glycemia and glyceimic curves
in obesity. Cesk. gastroent. vyz. 15 no.1:44-48 P '61.

1. Ustav pro vyzkum lidu, Praha, reditel doc. MUDr. J. Masek.
(OBESITY blood) (BLOOD SUGAR chemistry)

Placer, Zdeněk.

(Negative copy, V. Colloidal estimation of proteolytic activity of proteinases. *Edinburgh Pharm (Ophar)* 1968, 1969. *Chelation, 1968, 1969, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.* A new method is described based on the formation of colored Cu complexes combined with determination of the unhydrolyzed substrate with a Cu-As complex. A min. of dried substrate with concn. 1.5% is incubated at 37° with proteinase for 15 min. Addn. of a min. concn. equiv. vol. of 0.5M CuSO₄ and 0.5M AsH₃ and filtration result in formation of color int. blood-Cu complex, the intensity of which is prop. to the amt. of the released hydrolytic products and is measured directly in a photometer at 620 mμ (green filter). The unhydrolyzed protein substrate precip. and does not interfere.

L. J. Dobson

PLACER, Z.; ROUBAL, Z.; VOKAC, V.

The action of gastric mucus and some sulphonated compounds on the development of experimental gastric ulcers in rats. Rev. Czech. M. 4 no.2: 111-124 1958.

1. Institute for Human Nutrition, Prague, Director: Doc. J. Masek,
Research Institute for Pharmacy and Biochemistry, Prague, Director:
Dr. Ing. Nemecek.

(PEPTIC ULCER, experimental,
eff. of gastric mucus & sulfonated cpds.)
(GASTRIC MUCIN, effects,
on exper. gastric ulcer develop.)
SULFATES, effects,
sulfonated cpds., on exper. gastric ulcer)

PAV, Jaroslav; PLACER, Zdenek; ROUBAL, Zdenek

Human blood esterase activity after heparin administration. I. Hydrolysis of various fatty acid esters. Cas. lek. cesk. 97 no.20:620-625 16 May 58.

1. Ústav pro výzkum výživy lidu, Praha, reditel doc. dr. J. Mussek,
Výzkumný ústav pro farmaci a biochemii, Praha, reditel Ing. dr.
O. Nemecek, J. P., Praha-Krc, Budejovicka 800.

(ESTERASES, in blood

hydrolysis of fatty acid esters, eff. of heparin (Cz))

(HEPARIN, eff.

on blood esterase hydrolysis of fatty acid esters (Cz))

(FATTY ACIDS, metab.

hydrolysis of fatty acid esters by blood esterases, eff.
of heparin (Cz))

PLACER, Zdenek, Dr.

Digestive enzymes. 7. Colorimetric determination of proteolytic activity of gastric juice. Cesk. gastroenter. 2 no. 3:204-209. Sept 55.

1. Ústav pro výzkum výživy lidu, Praha. Ředitel doc. Dr. J. Marek.
(GASTRIC JUICE,
proteases, colorimetry)
(PROTEASES, determ.
in gastric juice, colorimetry)
(COLORIMETRY,
of proteases in gastric juice)

PLACER, Zdenek, Dr.

Determination of amylolytical activity of duodenal juice by titration. Vnitř. lek., Brno 1 no.9:641-645 Sept 55.

1. Ustav pro výzkum výživy lidu, Praha. Přednosta doc. MUDr. J. Másek, Praha, Krc. Budejovická 800/B3. Ustav pro výzkum výživy.

(DUODENAL JUICE

amylolytic activity determ. by titration.)

VITKOVSKY, Zdenek, MUDr.; VISLOCKY, Boris, MUDr.; VULTERINOVA, Marie, MUDr.;
PLACER, Zdenek, RMDr.

Incomplete pancreatic fistula following gastrectomy. Cesk.
gastroenter. 9 no.4:259-280 Dec 55.

1. Ustav pro klinickou a experimentalni chirurgii, Praha, reditel
doc. MUDr. B. Spacek Ustav pro vyskum vysivy lidu, Praha, reditel
doc. MUDr. J. Masak.

(PANCREAS, fistula,

incomplete, postgastrectomy)

(FISTULA,

pancreas, incomplete, postgastrectomy)

(STOMACH, surgery,

postop. pancreatic fistula, incomplete.)

PLACER, Zdenek Dr.

Digestive enzymes. Sborn. pathofysiol. trav. vyz. 8 no. 3:160-164
Aug 54.

1. Ustav pro vyskumvysivy lidu, Praha (reditel doc. MUDr J. Masak)
(ENZYMES
digestive, method of pepsin determ.)
(PEPSINS, determination
in gastric juice, method)
(GASTRIC JUICE
pepsin determ., method)

PLACER, ZDENEK, Dr

PLACER, Zdenek, Dr

Digestive enzymes. Sborn. pathofysiol. trav. vyz. 8 no.2:68-79
My '54.

1. Ustav pro vyzkum vysivy lidu, Praha. Reditel doc. MUDr J. Masak.
(ENZYMES,
*digestive)

PLACHECKA-GUTOWSKA, Maria; NUSIAL, Wlodosimiers, Lodz, ul. Sterlinga, 1

Use of some cytochemical and cytoenzymatic methods in cellular diagnosis of acute leukemias. Polskie arch. med. wewn. 24 no.6: 1045-1053 1954.

1. Z II kliniki chorob wewn. Akad. Med. w Lodzi; kierownik:
prof. dr. med. J. Jakubowski

(LEUKEMIA, diagnosis
cellular, evaluation of cytochem. & cytoenzymatic
methods)

PLACER, ZDENEK

Digestive enzymes. I. Iodometric estimation of the activity of pancreatic amylase. *Zdenek Placer* (Ústav výzkumu výživy lidu, Prague). *Stavba Enzymů*, 1954, s. 65-72 (1954).—A method based on Rosen's relative est. of aldehydes is introduced (W. H. H. and Schulz, C.A. 11, 400). Aldehyde groups set free by the enzymic hydrolysis of starch release added alk. soln. of I₂ to I⁻. Excess of I₂ is then detd. with thiosulfate. Results obtained in healthy and sick individuals are presented. II. Colorimetric estimation of the proteolytic enzyme activity studied after oxidation of a substrate-containing substrate. *Ibid.*, 73-8.—A new method is given based on the difference in color of native and digested colloidal suspension of casein substrate after oxidation with ferricyanide in alk. soln. III. Colorimetric estimation of proteolytic enzyme activity of pancreatic juice by means of copper complexes. *Ibid.*, 76-9.—A method is given using dried milk as substrate which is based on the formation of intensively colored complexes of sol. bivalent Cu cations with amino groups which are set free by enzymic hydrolysis. IV. Estimation of residual proteolytic activity of gastric juice. *Ibid.*, 80-4.—Dyeing of defatted dried milk used as substrate with methylene blue facilitates a precise detn. of those needed for pptn. of casein by hydrolytic action. The rate of pptn. is in direct proportion to the enzyme concn. at const. temp. L. J. Urbánek

Category: Serbia, Diseases Caused by Bacteria and Fungi.

Abs Jour: Ref Zhur-Biologiya, No 16, 1957, 72274

Author : Placeriano S.

Inst : Not given

Title : The Clinical Picture of Leptospirosis in Horses.

Orig Pub: Veterin. Glasnik, 1956, 10, No 1, 1-9

Abstract: The epizootology and clinical picture of leptospirosis is described in five horses. High fever, light sensitivity, sleepiness, and yellowing of the conjunctiva were observed. In two horses changes in the eyes were noted, similar to those in periodic ophthalmia. In all horses the diagnosis was established serologically (agglutination-lysis reaction), and in one case *L. pomona* was found in the blood. All of the horses recovered. Penicillin treatment, especially speeded up the animals' recovery.

Card

DAUM, S.; NIKOLYEV, L.; STIKSA, J.; VOKAL, T.; VAVROVA, V.; HAJEK, J. ...
Technická spolupráce: MACHANOVÁ, A.; FIALA, B.; NEBEŠ, J. A.

Diffusion capacity of the lungs and its components in interstitial
pulmonary fibrosis in adolescents. Cas. lek. Cesk. 104, 1965,
1366-1371 10 p 1965.

1. Vyzkumny ústav experimentální terapie v Praze, ředitel prof.
dr. O. Smolč, I. Sc. a ústav výzkumu vývoje dítěte v Praze
ředitel prof. dr. J. Houstek, I. Sc. .

POLAND

PLACHCINSKA, Janina; Virological Department,
In Warsaw (head: Department of Virology)

State Institute of Hygiene

"Studies of Herpesvirus Infection with Influenza A₁ and
Viruses

Warsaw, Medycyna i Biologia 1965, Vol. 13, No. 1, pp. 1-10

Abstract: Influenza A₁ virus and English strain, modified: Mice were
infected intranasally with A₁ virus. The virus could be found
after 1 day in the lungs, after 2 days in the blood and par
tous organs, after 3 days in the lungs; and after 4 days, it
detected in the blood. A virus multiplication in lungs was
that of the virus. The infected intraperitoneally with A₁ virus and
infected intranasally with PP-3 virus showed the same mortality rate as
control group. With the reverse procedure (intraperitoneal infection
with PP-3 virus, then intranasal infection with A₁ virus) a protective effect
observed when the two viruses were administered at 4-6 day intervals. The
findings are in five Western references.

1.

PLACHCINSKA, Janina

Evaluation of efficiency of typhoid vaccination. Przegł.
epidem., Wares. 10 no.4:313-318 1956.

1. Z Zakładu Epidemiologii A.M. w Warszawie Kierownik:
prof. dr. F. Praeszycki.

(TYPHOID FEVER, immunol.

alcoholised Felix vaccine bact. vaccine, endotoxin
precipitated vaccine & TAB, comparison in mice (Pol))

KOSTRZEWSKI, Jan; PLACHCINSKA, Janina; GRUZEMSKI, Aleksander

Evaluation of vaccines and of the effectiveness of vaccinations against typhoid fever. II. Evaluation of the immunogenic capacity of K, N, P, S, T vaccines by an active test on mice infected with *S. typhi* with zymosan. Przegl. epidem. 17 no.1/2:71-80 '63.

1. Z Zakladu Epidemiologii Panstwowego Zakladu Higieny i z Zakladu Epidemiologii AM w Warszawie.

(TYPHOID-PARATYPHOID VACCINES (ZYMOBAN)

PLACHCINSKA, Janina

Attempt to replace animal mucin with linseed extract in experimental Salmonella typhi infection in mice. Przegl. epidem., Warsz. 10 no.4: 319-323 1956.

1. Z Zakladu Epidemiologii A.M. w Warszawie. Kierownik: prof. dr. F. Przesmycki.

(SALMONELLA INFECTIONS, exper.

typhi, eff. of linseed extract, comparison with mucin in mice (Pol))

(MUCIN, eff.

on exper. Salmonella typhi infect. in mice, comparison with linseed extract (Pol))

(PLANTS, extracts

linseed, eff. on exper. Salmonella typhi infect. in mice, comparison with mucin (Pol))

KOSTRZEWSKI, Jan; PLACZCINSKA, Janina; LADOSZ, Jadwiga; RZUCIDLO, Ludwik

Preliminary studies on the standardisation of an active test on mice immunised with typhoid endotoxin and infected with *S. typhi*. *Przegł. epidem.* 15 no.3:295-309 '61.

1. Z Zakładu Epidemiologii Państwowego Zakładu Higieny i z Centralnego Laboratorium Zjednoczenia Wytworni Surowic i Szczepionek w Warszawie.
(TYPHOID insanal)

11/08/1964, Manila

Detection of Influenza virus in tissue culture by direct
fluorescence. Med. Res. Serv. 11: 11-12 (1964).

1.1. Taxian, Wiroloclon, and others. Influenza virus in tissue culture.

Subject : USSR/Chemistry AID P - 2277

Card 1/1 Pub. 152 - 3/21

Author : Plachenov, T. G.

Title : Developing new apparatus for measuring pores in order to study the structure of porous substances by the method of impregnation with mercury

Periodical: Zhur. prikl. khim., 28, no.3, 245-253, 1955

Abstract : Several apparatus for measuring pores are described. Three apparatus seem to be suitable for measuring pores and for determination of the specific surface of solids (with effective radii of 100 to 55,000 Å, 40 to 55,000 Å, and 15 to 55,000 Å).

Institution: Leningrad Technological Institute (im. Lensovet)

Submitted : Je 22, 1953

PLACHECKA, M.; SZAJEWSKI, J.; WYSOCKA, L.; z techniczna wspolpraca
A. Koslowskiej.

Posttransfusal complications based on material of the
Internal Disease Clinic of Warsaw. Polskie arch. med. wewn.
26 no.12:1819-1823 1956.

1. Z I Kliniki Chorob Wewnętrznych A.M. w Warszawie Kierownik:
prof. dr. nauk med. A. Biernacki. Warszawa, ul. Nowogrodzka 59.
I Klinika Chorob Wewnętrznych A.M.

(BLOOD TRANSFUSION, compl.
in internal dis., statist. (Pol))
(MEDICINE, INTERNAL, statist.
posttransfusal compl. (Pol))

EXCERPTA MEDICA Sec. 6 Vol. 11/12 Dec. 57

PLACHECKA-GUTOWSKA M.

7265. *PLACHECKA-GUTOWSKA M.* Inst. Naukowego Kult. Fizycznej, Klin. Zdrowego Człowieka, I Klin. Chor. Wewn. A. M., Warszawa. Poziom hemoglobiny i liczba krwinek czerwonych u sportowców. Haemoglobin level and the number of erythrocytes in sportsmen POL. ARCH. MED. WEWN. NET. 1957, 27/1 (67-74) Graphs 8 Tables 1

In 190 sportsmen of the national cadre (154 men and 36 women) the haemoglobin level and the number of erythrocytes were determined. The average level of haemoglobin for men was 13.14 g.%; for women 12.12 g.%. the average number of erythrocytes is for men 4,113,000 and for women 3,745,000.